## WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/Owner: Alaska Energy Authority    Alaska Energy Authority   Landform (hillside, terrace, hummocks etc.):   Knob										
Investigator(s): CTS, EKJ  Landform (hillside, terrace, hummocks etc.): Knob  Local relief (concave, convex, none): convex  Slope: 1.7 % / 1.0 ° Elevation: 607  Subregion: Southcentral Alaska  Lat.: 62.6890099088  Long.: -148.922679969  Datum: WGS8/  NWI classification: Upland  Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation , Soil , or Hydrology significantly disturbed?  Are "Normal Circumstances" present? Yes No No (If no, explain in Remarks.)										
Local relief (concave, convex, none): convex Slope: 1.7 % / 1.0 ° Elevation: 607  Subregion: Southcentral Alaska Lat.: 62.6890099088 Long.: -148.922679969 Datum: WGS84  Soil Map Unit Name: NWI classification: Upland  Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No (No (Normal Circumstances))										
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Are Vegetation  , Soil  , or Hydrology  significantly disturbed?  Are "Normal Circumstances" present? Yes  No										
Are Vegetation 🔲 , Soil 🔲 , or Hydrology 🔲 naturally problematic? (If needed, explain any answers in Remarks.)										
<b>SUMMARY OF FINDINGS</b> - Attach site map showing sampling point locations, transects, important features, etc.										
Hydrophytic Vegetation Present? Yes  No  No  Is the Communication Area										
Hydric Soil Present?  Yes No  Is the Sampled Area  within a Wetland?  Yes No  No  Ves										
Wetland Hydrology Present? Yes ○ No ● within a Wetland? Yes ○ No ●										
Remarks: Stob b/c the Betgla is definitely tall, but Slobe is better veg description										
2 2 2 3 5 5 6 4 6 betgin is definitely tail, but slobe is better veg description										
VEGETATION - Use scientific names of plants. List all species in the plot.										
Absolute Dominant Indicator Dominance Test worksheet:										
Tree Stratum  Mumber of Dominant Species That are OBL, FACW, or FAC: 3 (A)										
1										
2 0 Species Across All Strata: 4 (B)										
3 Percent of dominant Species	٠,									
4 That Are OBL, FACW, or FAC: (A/I	3)									
5 O Prevalence Index worksheet:										
Total Cover: Total % Cover of: Multiply by:										
Sapling/Shrub Stratum  50% of Total Cover:0										
1. Betula glandulosa 50 FACW Species 67 x 2 = 134										
2. Betula neoalaskana 3 FACU FAC Species 126 x 3 = 378										
3. Vaccinium uliginosum  40  FAC  FACU Species 18 x 4 = 72										
4. Vaccinium vitis-idaea										
	(B)									
6. Spiraea stevenii 1 FACU Prevalence Index = B/A = 2.768										
7. Empetrum nigrum 1 FAC ———————————————————————————————————										
8. Picea glauca 4 Hydrophytic Vegetation Indicators:										
9										
10 0_										
Herb Stratum 50% of Total Cover: 99.5 20% of Total Cover: 39.8 Remarks or on a separate sheet)										
1. Cornus canadensis 10 FACU Problematic Hydrophytic Vegetation (Explain)										
2. Rubus chamaemorus 2 FACW Indicators of hydric soil and wetland hydrology must										
3 be present, unless disturbed or problematic.										
4										
5 % Cover of Wetland Bryophytes 70										
6 (Where applicable)										
7										
8 O Total Cover of Bryophytes										
$\frac{0}{0}$										
io hydropnytic										
Total Cover: 12 Vegetation Present? Yes No										
Remarks: Betneo is likely hybrid w Betgla = sapling sized (4-5 m) w intermediate lvs. 4% picgla trees included in shrub layer for dominance test, as										

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SOIL Sampling Point: SW12\_T91\_03

	on: (Describe to	o the depth n	eeded to docu	iment the indicator or c	onfirm the ab		cators)			
Depth (inches)	epth ————		%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks	
0-2			85					Fibric Organics	15% roots	
2-7			80					Hemic Organics	20% roots	
7-9	10YR	6/2	100	-				Loamy Sand	Charcoal on top, few roots	
9-11	5YR	2.5/2	100					Loamy Sand	-	
									few semirounded gravel	
11-13	7.5YR	3/3						Loamy Sand	few semirounded gravel	
13-14	10YR	4/2	100					Loamy Sand	few semirounded gravel	
14-17	7.5YR	2.5/3	100					Loamy Sand	few semirounded gravel	
17-21	10YR	3/6	100					Loamy Sand		
<sup>1</sup> Type: C=Concentration. D=Depletion. RM=Reduced Matrix <sup>2</sup> Location: PL=Pore Lining. RC=Root Channel. M=Matrix										
Hydric Soil Indicators: Indicators for Problematic Hydric Soils:										
Histosol or	☐ Histosol or Histel (A1) ☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder									
Histic Epip	. ,			Alaska Alpine	Alaska Alpine swales (TA5)  Underlying Layer					
Hydrogen	Sulfide (A4)			Alaska Redox	With 2.5Y H	Hue		Other (Explain in Remar	ks)	
☐ Thick Dark	Surface (A1	2)								
Alaska Gle	Alaska Gleyed (A13)  Alaska Gleyed (A13)  3 One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present									
Alaska Red				4 Give details of		•				
Alaska Gle	yed Pores (A	15)		*Give details of	color change	e III Kelliali	(S			
Restrictive Laye	er (if present)	):							- · · · ·	
	Type: Hydric Soil Present? Yes O No •									
Remarks:	103).									
HYDROLO	GY									
Wetland Hydr	rology Indic	ators:						Secondary Indi	icators (two or more are required)	
Primary Indicat	tors (any one	e is sufficier	nt)					Water Sta	ined Leaves (B9)	
Surface Water (A1)				☐ Inundation Visible on Aerial Imagery (B7)				Drainage Patterns (B10)		
High Wate	er Table (A2)			Sparsely Vegetated Concave Surface (B8)				Oxidized Rhizospheres along Living Roots (C3)		
Saturation	` '			— · · · · · · · · · · · · · · · · · · ·					of Reduced Iron (C4)	
Water Mar				Hydrogen S				Salt Depos		
	Deposits (B2	☐ Dry-Season Water Table (C2) ☐ Stunted or Stressed Plants (D1)					` '			
	Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2)								` '	
	☐ Algal Mat or Crust (B4) ☐ Shallow Aquitard (D3)									
Iron Depo	osits (B5) oil Cracks (B6	.,							graphic Relief (D4) al Test (D5)	
Field Observa	,	)						FAC-neutr	ar rest (D5)	
Surface Water		Yes	No ●	Depth (inch	ьес).					
			No •	, ,	•		Watle.	nd Usdvologs Duocos	nt? Yes O No 💿	
Water Table P				Depth (inch	ies):		wetia	nd Hydrology Preser	it? Yes 🔾 NO 🖲	
Saturation Pre (includes capil		Yes	No 💿	Depth (inch	es):					
Describe Record	ded Data (str	eam gauge	, monitor w	ell, aerial photos, pro	evious inspe	ection) if ava	ailable:			
Remarks:										
no wetland hyd	Iroloav indica	tors								

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